

## HOME MADE BLEACH AND WATER DISINFECTANT RECIPE

With so many of us using bleach, I want to provide you with some reminders about using bleach.

1. Never at any level mix bleach with ammonia or any other acid.
2. Bleach has a shelf life, concentrations between 4-6% is about 3-5 months.
3. Secondary bottles not only need to be labeled, but in an opaque bottle, sunlight damages the bleach. Use cold water to mix the bleach.
4. Always use gloves when using bleach, if your skin feels smooth after using bleach, the bleach has removed the protein on your skin, protein is a protective measure on your skin.
5. Read the label on your bleach, it is in many different concentrations, some is too strong for even a 10:1 water to bleach ratio. I would be very cautious with bleach or (NACLO) greater than 8.25%.

Bleach concentrations should be between 0.5 & 2.0% or 5,000-20,000 ppm. The following chart is using a 10:1 dilution:

NaClO Concentration		Dilute 10:1	
%	PPM	%	PPM
8.25	82,500	0.825	8,250
6.15	61,500	0.615	6,150
5.25	52,500	0.525	5,250

6. Ideally bleach should be allowed to stay on a surface you are cleaning for 10 minutes

Reference:

Northeastern University Environmental Health and Safety (2017).

Points 1,2,3,5,6